

A true poet of Romanian lindscape, Drahlut Covidin the 1924) has approached many genres of painting, ite appears in all hyporthases, as a shameh advocate of a figurative conception, deeply rooted in the Romanian tredition. Asserting himself modify in ease painting, the artist impresses through the robustness and consistency of his presecupations. The sense of measure is mero conspicuous here making what might have appeared as a temperamental structure a fesher of character. The landscapes of the portraits of contemporaries and of personalities of the actional entires and history (for Creangh, Tudor, Vialiant rescu, Minal Vitequit) are first of all subjects of meditation, not fust simple prejects of artistic digression. The occulion of the pattern, whether it is a portrait, a landscape or called the has a narrative character, the description being activating an image rigorously built from expressive elements golioted by his pictorial sensitivity. A convinced figurative mind, he detaches himself from reality with the entspoken sincerly of a native person always ready to take if for granted. The cicarness of pictorial representation is given by the closuress of the aesthetic ideal. In the interest shown for the village life, the aritist rediscovers one of the whely circulated themes of Romanian fino arts i the fusion with nature, man's harmonious integration in its permanent flow. The symbolic characters which the outcohicueus hattad borrowed from inistery reconstitutes directly or auggestively a spiritual cimesphere pervaded by clear aspirations after human perfection.









Ou this page, some representative works by artist Bradus Covaling the great diversity of themes and pictorial genras making the ring his objects; with the control of the c

ROMANIAN

MICHAETON AND COMMENTARY
WEEKLY PUBLISHED BY
THE ROMANIAN NEWS AGENT
AGENPRES
TO ENGLISH
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TO BE 30 FORATOR FRANCE
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OMANIA

ELEVENTH YEAR 7 (516) FEBRUARY 19 1988 16 PAGES - 3 LEI

ANTICAL PROPERTY AND A CONTRACT STORY OF THE PROPERTY OF THE P

TWENTY YEARS SINCE THE ADMINISTRATIVE-TERRITORIAL REORGANIZATION LIFE'S CONFIRMATION

Two decades ago, the Grond National Assembly deladed and approved the proposals concerning Homanul's administrative-territorial reorgalization. The main principles and ariculations of this reargalization had been laid only the National Uniference of the Homanian Communist Party of 1907, in the report presented then, to the great forum, Nicolae Cronyesen stressed that "These perfectles and measures sient from the need in bring to the same level the administrative-terrilorial organization and the qualitative changes becough up by the development of production forces and their group political in the population structure, by the meeting indicators and itving conditions in towas, communes and villages throughout the country."

The dissolution of districts and regions and he setting up of connition as basic units in the management of territorial nelivities arrant not only a simplification of the administrative-territorial organization. First of all, the measures adopted two decades ago allowed of a more rational laying out of production forces over the whole itemanian territory, the harmonious development of all country press, the crossional divisors.

Within the measures administrative-territorial organization permanent to the country and development.

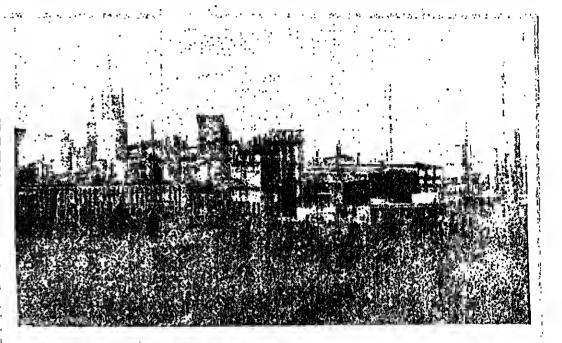
for all cilizens.

Within the new administrative-territorial organization permanent attention was paid to hridging the gap in the counties' socio-conomic development, to the progress of the backward ones through the complex and efficient capitalization of their material and human potential. Today the stage has been reached when, out of the 40 counties (to which Bucharest municipality and lifey agricultural district appraise entities are added), if counties record a total volume of economic scivity worth between 30 and 100 hillian tel annually, whila it other counties exceed 100 hillion tel. Let us mention the fact that in 1868, 31 counties had a volume of economic activity upder 40 hillion fol. Going from particular facts to general ones, let us meetlen that Remanda's whole industrial output in 1863 is schioused today in less than two months,

lot. Coing from particular facts to general ones, lot us meclion that Romania's whole industrial output in 1963 is achieved today in less than two months.

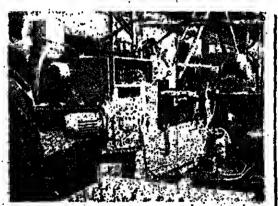
Gver the period clapsed since the Ninih Congress of the Party, about 3.2 million working piaces have been created in non-agricultural sectors, many of them in the counties which initially were economically poorly developed: Bistrita-Nasand, Betosoni, Covasna, Bimbovita, Cor), Salal, Vasiat, Viloce, As a matter of fact, these counties recorded in highest pace of economic development, Thus, If, as compared to 1965 the folal volume of teconomic activity graw 3.07 times in 1885 in Bucharest municleatity, 3.12 times in Prahova county and 3.13 times in Brasev county, in Bistrita-Nasand the growth was 4.75 times higher, in Viloca 5.48 times, and in Salaj 6.10 times.

The complex process of development, rational and equilibrated distribution of production forces evac the territory of the country has been accompanied by a vasi planning and granning promotes a new concapiton, organicatly integrated into the strategy of building the many-sidedly developed accialist socialy, And the growners and of inhabitants of the lowns in 1965, Romanic coincid 185 towns and now there are 237; the grann population has grown from 5.7 million to landinously essential features of each soltioment in Romania.

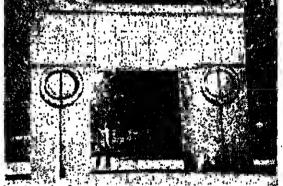


NEW LANDMARKS IN MUREŞ COUNTY

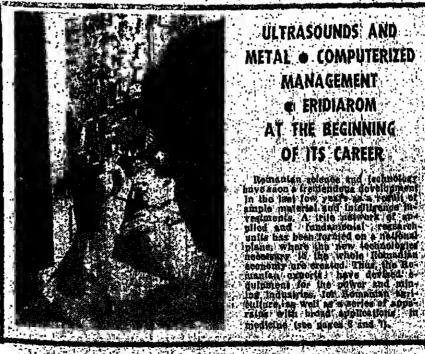
Lying in the centre of the country, its in the country, Nurry country has a rectified towards chemistry, lexing and planning. New urpopulation of 320,000. There are life machine huidding, woodlines here — Tirgu working and the light industry. Investance and new districts working and the light industry. Investance than 170,000 fluts have been built in the country-side founds. The industry of this communes. The industry of this community has also witnessed a required for the country-side for country has also witnessed a required for the country-side for modernization of its towns.



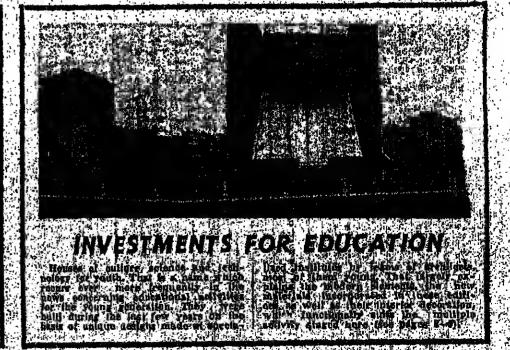
AUTOMATION AND PRODUCTIVITY (PAGE 3)



MESSAGE ACROSS THE CENTURIES (PAGE 10)



ULTRASOUNDS AND METAL . COMPUTERIZED MANAGEMENT ERIDIAROM AT THE BEGINNING OF ITS CAREER



ROMANIA IN THE WORLD . ROMANIA IN THE WORLD

EXCERPTS FROM ARTICLES CARRIED BY THE FOREIGN PRESS

GREEKE

Under the title "The Strong Development of Romania's Economic Colleberation with the Developing Countries" the Allonian magazine TEMATA, points out the dynamic sectors. points out the dyamic evolu-fion of Romania's economic re-intions, atreating that over 1963—1985 the commercial exch-nages and economic acoperation with the developing countries know a atrong impetus.

divoration under its most divoration under its most divoration to the Roumaia'n economic relations with the doveloping countries, the publication polate out. Half of Bomania's Informational cooperation actions over the tast two decades were conducted with these countries. The reporting actions des were conducted with these countries. The respective actions countries. The respective actions countries in production to the development of the production terces of the pariner state, to their industrialities on the industrialities of the industrial resources and corresponded of the asme time in its developing necessities of the Romanian national economy, the Athenian megazine circuses, adding a Through the declerations of

Through the declerations of the President of the Republic, Nicolse Ceausesou, the real lat-timer of this mutti-dimensional faroign policy, Romanie pointed out that it would be firmty and costantly concerned with life development of economic reletions with the developing countries in Asia, Africa and Lalin America, with the initiaflon of new important actions of industriol and production cooperation on equilable, invcooperation on equitable, nurtitally advantageous baces, being
oanwinced their liks will decisively contribute to the strengthoning of triendship and collaporation on multiple planes with
fluse states, to the atrongthening of confidence among at
the states of the world— the
Greek magazine concludes.

MORTAL AND THE

"President Nicolog Ceausescu's Peace Policy" is the breeding of an article recently carried by the MEDIA magazine of Pakistan. "Boastlag n revolutionary eutiosk, inspired from diniccie-ol and historical materiatism, on international phenomena, on the processes, frends and evalu-tions of the contemporary file processes, frends and evalutions of the contemparary world, leaving n high oense of responsibility for the tate of understanding, cooperation and peace in the world, the article reade, President Nicolae Consescutias wen n wett descreed international fame directly mirrored in the dignified place hold today in the world by Romanin. The magazine elsa stressee that "in President Nicolae Coopersen's political ithinking and practical colivity the een-Ceousesen's political thinking and practicat colivity the central place is taken by the impleateatation of disarmamoni, auriear in the first place, by the creation of a worth at these creation of a worth at froe from weapons and devas-

President Nicotzo Ceousescu has otien shown that the European peoples and polloy-makers obould understand that security, tadependence ond treedom are not roisied to nuclear arms but to their desiruotion, to cooventional disagnament, to the building of new, democratio relations in Europe.

Under the sign of this con-Under the sign of this con-temporary imporative, President Micelae Cecaseau's resunt spe-ches reiterated the opeolal role and contribution going to the European peoples, their respon-sibility in achieving disarraa-ment and pecoa. Highighting the European peoples' cannotly to determine lister naipral des-tiny of peace, President Nicolne Coauseseu made a vibration an-Coauseseu mado a vibrattog appeal to concerling the efforts of peal to cencerling the efforts of all democratic, progressive forces with a view to building a Europe froe from mucleae won-pons, with less coaventiquot arms, o Europe of free collaboration among all peoples. In fact, the article reads, is President Nicotna Ceaugescu's pollitest thinking a major imperative of our times is the demo-

eralization af international rota-tions, the real and dorable sett-tement of all questions — eco-nomic, positical or mititary —, which implies the participation of all states, irrespective of aira of all states, irrespective of aira and soulst system; that is why special altention, accompanied by continuous, tenacious actions and by new hitialives, is nitrohed by President Nicolae Ceaugesou, by Romania, to the exclusively peaceful, negotiated settlement of all disputes and confilets between states.

In the arifele entitled "Roma-nin's President — Valid Argu-ments far Progress, Peace and Collaboration emong Peoples", the DAVAR daily issued in Tel Aviv points out 1

A prominent personatity A prominent personality at the contemporary world, Romania'a President Nicolas Coaugesou is the nutter of neomprohansive and theroughgoing theoretical work on the questions of Rommin's oconomic and social development as well as of asversi realistic, valid solutions reperding the fotomasolutions regerding the lolorna-lioust political life,

In the centre of his concept of political-economic construction, deeply rooted in the Romentan irodillons, President Nicoles Ceaugeacu places the thesis of the own nationel offert and the conviction that the mobilization of all the energica of the the manian peopla, and or leitzed by the prontolion of a high rule of economic accumulation can en-sure Romania's progress.

The innevaling conreplian of Realant's President the DAVAR further stians — of the sama thno highlights the decisive faiportance of the perfection of ea-cial production relations, the assertion and wide development of worker democracy, the bunken factor being athibuted an essential role in the relator-ament of the new avilluation.

The israel publication underlines the citers and personal rate of Remarks's President in the strengthening oad promotion of the correspond order, for the figuidalies of underdevelopment and of the recognition rate among the recognition of the recognition rate among the recognition of the recognition rate among the recognition rate of the recognition rate among the recognition rate among the recognition rate of and of the conomic gaps among countries, poluling out thei Ro-mania's President draws stiention to the fact that economic etablity, the scenrity policy and peace cannot be conceived of williout proviously solvios the issue of underdevolopment.

Under the headiles "Nicolas Coausescu — A Here of Pesce" THE Minary, publication brought out to the United States of America shedy tight an the example offered by Romnnie's Presideel — a statemen who has devoted his entire activity to fulfuting the lettlest ideals of his own people and of manking as a whole. The programmes of Romana's mullinger, intensive days forman. foral, intensive davolopment, defining of the Nicolae Consessed Aga sanction the Roconifoscu Aga, sanction the Ro-mealan people's constructivo, peaceful vocation, while provid-fus the foundation for the ma-jor initiatives and deaseches undertaken in the world arama, for setting up a hofter and jus-ter world free from weapons and wass, the publication notes. President Nicolae Ceausescu has made unaulmously appreciated made unanimously appreciated coatributions to expanding Romanin's foreign retations, to the manin's foreigo retations, lo ho constructive, lasting settlement of the major issues facity manicined. It is President Nicolae Coausesou's morat to bave imparted n new quality to the operation of mapplession of the international law principles. The consistent observance of these principles has prevented Romains from being involved in regional oriess or coafficie, in the simp race of in various polenite asmasgus, or contractions which have marked the world political estimale.

Enjoying & broad telernation

sarmameni programmes worked out under President Nicates Coauşeaeu's direct guidance, on the basis of the battef that dinarmament, outleer in the first place, is the only wny to ensure the peoples' peace end accurity, to remove all risk of wer.

The entire tife and activity of Romania's leader have consti-tuted a continuous, firm, many-sided offert selficially pinced in the service of his homeland's the service at his homeland's bappiness and prosparity, of the great ideals of peace, disarmament and progress of all mankind, while his country's consistent foreign pottay has carued respect and admiration on all meridings, the article reads in conclusion.

MOZAMBIQUE

The significance of Romonia's initiative concerning the growing role of the United Nations in the entire world potitical tife, the sefeguarding af peace and the promotion of collaboration of including the bermonization of the laterests of all member committee is emphasized in the article "Romania Decinres for a Growing Role of the United Nations", published by the NOTItions", published by the NOTI-CfAS daily in Mozambique.

According to the Romentan polul of view, a great responsi-bility is lacumbent on the UN for democratizing leternetiquel iffe, for creating conditions for the menilestation of the tegili-male aspirations of ell peoples in these fields — the newspa-ner naints out. per paints out,

Romania has distinguished tiself by a permanent contribution to examining and solving the foundamental issues of infernetianal illo such as diserranment, development, the estehishmont of a now international economic and political order, the sattlement of tofernational
disputes by political means alanoc. So fer mare than ted initialives and proposals advanced by
Romania have been included his
United Nations documents, reficoling President Nicolae
Ceausescu's stand on the mejor
problems of international tife,
valueble idags on all the vital
questions of the contemporary Romania has distinguished ego in which the United Nalons is called upon to play a promi-

LEBANON

Pointing out the consideration expressed by President Nicolae Connection and reaffirmed to several of his speeches that so-patism is bolit with the people, for the paople — a humanistic

euflook governing all the aspacis of building the sulfillite-rally developed socialist society in Romania — the Lebances magazine AN NAMAR archimagazine AN NAHAR alculi-ens: The year 1965 when Pre-sident Nicotse Coausescu way entrusted with lice highest puli-tical responsibilities opened a new path in the life of Roma-nian socioty, a naw develop-ment stage.

After stressing the great nehieventous scored by Romania in
various industrial ucctors as
well as the economic projects
of nutloani interest eracied by
iba Romanian people from destign to execution, proving the
country's great capacity, exporience und fechnicocoonomic potentiat, the Lebanese magazine
notes: In Romania, the prosentday political system is based
on revolutionary warker domocracy, which means the exerolse of potitical power by the
working class in altimos with
the peasantry, the intelligunials
and the other strate of sociaty. It
expresses a new type of human expresses a new type of human relations obstactorized by justao, collaboration and mutuat as-sictance among all the country's sons, for over freed from natio-aal and social exploitation.

ABU DHABI

The AL WHADA NEWS daily issued in Abu Dhabi a series of articles presenting President Nicoles Causescu's peaco proposats and juliatives

The article "President Nicolae Composer — A Tircless Militant for the Causes of Pence" presents the contribution of the Ramanian head of state to the solution of the most acute questions of the international life. tions of the internationat life, of disarmament tiret et all. The atleidion potd by fresident Nieviao Cesusesou to negotiolions and political dialoguo, is pointed out t oppreciated are Romanie's offorts in achieving a climate of peace and eccurity in Europe, the Balkans, for the solution of problems in the Middle East and the Guif arenta Central Anterios, Africa and Asia.

Asia.
In Pcosident Nicolog Cangeson's outlook of broad inforactional cate, ceeds the article, the Just and durebte solution of great problems confroating our age laposes the active, equet participation in its international tile of att states, ragardiess of size or social order, and especially of small and medium-sized countries, of divoloping and non-aligned countries, representing the majority of validas, what are directly interested in a policy of aqual collaboration, of indapandence and peace.

The prodigions activity at brilliant tatilatives of the entern the communication of the entern the contributed to break ing and diversitying the Remains at the lines, making the name of the country and of President Nichell Craugesen become symbols of the action and struggle for hedependence, peace, development and collaboration overwher, notee the nawapaper.

CYPRUS

the entire laternational commi nity to apply one of the eldel relations generally and lateration ones particularly — got-uclghhuurliness. Romanis's in-tiativo has eticited a powerbl ecto at the Uolled Nation sterling in 1979, when this euntry advanced the draft rest lution oo developing sad sired theniag gnod-nelohbourines, backod by other states from al geographical regions al inwarid. The draft proposed by Romania in 1973 was adopted by consensus by the UN General Assembly at the end at 188.

fu essence, the Romanian to-cepi utiribules good-ackfibut-tiaces the meril of protestat vital paliticat usees such as in libecty, severetiquity, indepen-donce and security of the acign-bouring states, their national botng itself.

hotng itself.

As fer as it is converced. Remacia has been consistently pranating good-neighbarry reletions with att Eurapean sites, being eas of the most active countries in the preminitaled by the Conference as Socurity and Casperation heurope. In fact, the Remains actions and initiatives in favor of setting up a new cimate sipeace and scentrily on the continent, a productive cooperation of the 35 states participant in the Cesce are walt known.

In the generaplife area where

In the geographia area when

notee the aswapaper, The article "Rements - & netive Militant in Strengthenly the Role of the UN" present

this country's conception regarding the activity of the UN a un efficient instrument is stating and solving the complex occurons and potitical mater of the contemporary world, a wolf as the initiatives, proper cals and political ideas act for by Romania in this form,

"Gaod-Neighbourliness -Imperetive of Our Times" his beading of an artirle rarded by THE CYPRUS MAIL, reads thef I Bounnia has salled a

advoacno constructive francish atmod at turning the Balkapt tote a unclear and chemissi-weapon free zone of peace and good neighbouritness.

TRADE — COOPERATION

Cologno bested the traditional host country and from other furniture tair in which 1,500 slates. The visitors noted that from West Germany, Eggland, first and enterprises treat at eriginality, itnasess of executives the country and from the large number of visitors of the large number of visitors. The Homenium loducity regu-larly attends this economic ovent

The itomenium loducity regularly attends his economic ovent regarded as the most represonted to activity in this floid worldwide. Romanta, a country with n rich and ackonwiedged fradillon in turniture making and experi, was represented if the 1088 edition of his major competition by numerous which those of Tirgu Mures. Oradea, Ciul-Napoca, Bighet, Mizit, Satu Maro, Raidaul and Pocsant, Adding to them were duzent of bendleraft cooperative and small-scale industriel units. The rieb and varied range of exhibits, made in vorious siyles and constitutional solutions. It is not the world which making room sets, bookesses, small interference of the Romanian durity lime is Cologne by the Romanian colonial solutions. As a matter of fact, Romanian its lime is Cologne by the Romanian its over the world. We interviewed, Minajahe house the visitors to the Romanian alands — expertance in activity of the Romanian in a stands — expertance in activity in the patterns in activity of the Romanian in a stands — expertance in activity in the patterns in activity of the Romanian in a stands — expertance in the Romanian in a stands — expertance in activity in the patterns in the colonial of the Romanian in a stands — expertance in activity in the patterns in the colonial of the Romanian in the colonial of the Rom

tion, quality, olegence, good taste and functionality of the turniture on display, made in

USSR, the USA, Canado, Listy, Swedos, Finiand, Japas, Belling, Oman and other countries, wa received thronghout the disglum, Oman and other countries we received throughout the direction of the felr confirmed once again the worldwide interest aparted by Romaelen furniture. Our gnosis — bushness man, many of them traditions partners of the Romanian culer prises, manufacturers cont representatives of the poblic — appresciated the quality and elegands of the furnitare suites and process on view. Moreover, they come gratulated our exhibitors on the furnitaries of the syntage and manufacturing furniture, on the capacity of the Romanian exports and enterest set for keeping almost of the present day trends and demands of the foreign backet. A second in the 1988 califor exists concluded on this occasion fill bushnessmen in many countillar almed at brostoping and difficulting Romanian furniture. PETRU UILAGAN

AND PRODUCTIVITY Fifty-live per seni. According to the plan this is the percentage by which lobent praductivity in industry is to grow during this

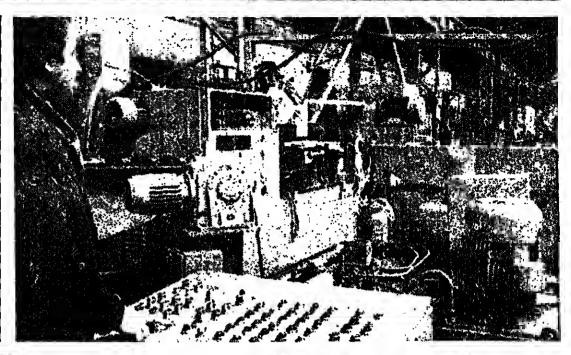
by which lobour praductivity in industry is to grow during this quinqueantum.

One of the main ways of sticining litis (srgci, which is also profileble from en economic point of view, is the firstble sufomation of technologiset processes. It implies the organization of jobs, menufacturing cells and lities served by industrial robols. Meeting this requirement has celled for a sustained activity of research ead design in the field of construction and application of todustrial robols. Thus an interdisciplinary learn of research and design for industrial robols was set up et the Traina Vula Polytechnic Institute in Thuispara, it includes university staff and researchers in the fields of mechanics, the feedmology at machine cogineeriag, computer technology and industrial electronics. The research larorts of this learn feeture is the optimization of the structure and construction of the mechanical system of industrial robots; the building of sensors for automatically recognizing the objects' shape and position; the devising at advanced programming languages, etc.

AUTOMATION

ming languages, etc.

The results obtained so far have been turned to account by sa-The results obtained so far have been turned to account by savered learns made up af university shaft, engiacers from the benaficiary enforprises and sindeats. In parallel, the specialists to industrial units have been latrodured to robotics questions. This coltaboration resulted in the building of industrial robots and other devices used in calerprises as flexible enautacturing systems.



FROM THE LECTURE ROOM TO THE

A new robol worked out nad designed at the last Polyteritbrought into operation in one of the halls of the Nicolina Mechameal Enterprise in task. More precisely, a flexible fubrication cell flor the processing of a whole family of axie-type garls. endpied with a robal with o levels of freedom. The robat toker over the prefabs in a sporago come containing the nervi-sary stuff for one shift, feeds three machines placed in a circle ta milling and rentering machine and two sentational ed copying initia) and lakes



PRIZES AND PERFORMANCES

"The beginning", said Feancisa Kovaes, besd of the interdisciplinary team, "consisted in two nationel firsts: REMT-1 industrial robot and the febrication cell for processino electric motor checks, tha fruit of the colleboretion between the Polytechnic Institute and the Electromotor Enterprise, bolb of them in Timisoara. The two products came into operation in February 1882. Tha toem, which designed, built and impiemented them was awarded the presitfactured. ed thom was awarded the presitglous prize Train Vute gronted by Romania's Academy, Subse-quently, two new types of robots with higher norformance -REMT 3 and REMT 2 S, a manipulatoe means for coeting o-perations and a robolized sipe for processing electric motor rotors have been designed, ma-numetured, and implemented."

These two nories have been developed as pari of the colaboration with Electrometer and Electrotimis enlarprises, where workstops for designing and building industrial robots wore sol up. REMT 8, REMT 4 and REMT 5 followed, which were introduced in the floxible manufacturing times of the Tool-Enterprise of Risnov and the Truck Enterprise of Risnov and the Truck Enterprise of Risnov and Truck Enterprise of Risnov and Truck Enterprise of Risnov and Truck Enterprise of Risnov. Truck Enterprise of Brayov.
Also, as part of the production
updating programme, Electrotimis af Timiscara manufactured and introduced a family of
four industries robots and two
manipulators. maniputators.

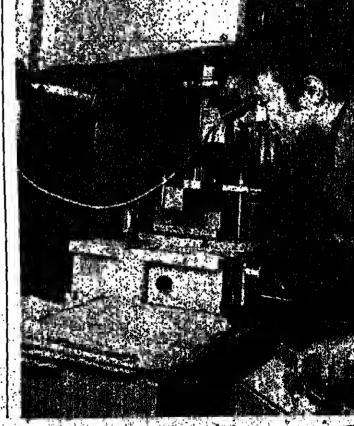
The purposes of the rebots designed by the interdisciplinary team of the Traina Vuin Polytechnic Institute are much rolytechnic instillate are much more vuriad. A receast application of these actomated installations is that in the mining field. Thus, lotely with the opecialized industrial coniral of the product of the property of the product bots and a tlexible subfloation pell used for processing | parts

ibrough spliatoring were maau-

Another erea af epplicebilly of the creations echieved by the Timispara team is the rolling slook industry. On the request of the Railway Car Ecterprise of Arad, one of the most important units of the kled, a robotized installation meant for spot wetding of the roofs and talerat walls of cers was achieved. Another railway our enterprise—that in Drobets-Turm Severin—turoduced a robolized welding cell which made it possible to dauble tabour productivity as well as to impreve the goality of the welding. Uader construction et the same caterprise aramechanized installations for coating cars and sandblasting carciages.

These are only o faw of tha actiovements secred by the a-bove-mentiocod team. The au-morous designs currently on the drawing heard or about to be restized at the Train, Vuta Poreatted at the fraunt via re-tytechnic and in the two work-shops of Electromotor and E-lectrottals Enterpoises with fur-ther confeitute to enhausing the afficiency of production processes and to promoting breaches of the Romanian industry.

MIRCEA SONCUTEANU



NEW TYPES OF FLEXIBLE CELLS

Tehnofrig enjoyrise of Ciu. Napoda has hall a florible havitagined self-simulation of the How a cannot be shipled in the half so is the shipled in the half so is the shipled in the shipled in the half so is the shipled in the shipl

Merkanical Enterprise mate their contribution tool was com-pleted as corty as 1986 and last year II was made by the Enter-prise at Augregate Machines and Special Markine Tools in

The relatived cell at Nicolina The reliedized cell at Nicolina has heen so far the most important application in production of the reliefs created at the fast Polytechnic Institute, that there are two other projects which are in advanced stages of preparation. At the antibiotic plant, a rebolized celt for the closestion of aluminium recipients (which is done in loyle acid baths) will be brought into operation. The project of a partial type rabot is now being concalled and prepared for its production for the automated welding of thin sheets meant for an enterprise to the municipality enterprise to the municipality apecializing to making contain

ners.
The interdisciplinary cotice-live of robotics within the Gh. Asochi Palytechnio insiliulo la Asochi Paiyteennia insiliulo la last, mado of university sieff from the Mechaoles end Elec-trical Engineering Faculties be-gan its neityliy in 1980. lu 1982 it gan its neityly in 1980. In 1983 tr made (the coaception, design and execution were entirely the Polytechnic Institute's work) the first ROBI PI robol, a robot with cytindric persmeters. It was the first and tast experi-mental robot, it is still a sub-ject of study for the sludeats of the brechanics deperiment. All the other robots following ROBI of the brechanges deperiment. All the other robots following ROBI at a robot with five tevels of freedom wifeh manipulates containers with metal scrap toe the feeding of briquetting anits at a food indestry machine enterprise in Tecucil were been from the requirements of production. They were conserved and make for practical purposes they had been appealedly ordered for.

In 1984, in fast county, a large activity for the flactiony of places; where tributs could be implemented was initiated. Tens

implemented was initiated. Trais of places of prinary necessity were situated. Most of the robots will be built in the least substitutes of the Electrical Engineering Research and Dosign Institute and Dosign Institute.

Among the Intent coocerns of the robotics of the Intent coocerns of the robotics collective appears the making of some microprocessor control systems and some

the making of some micropro-cessor control systems and some steptes bydramilo drive systems, bable drive and computer pro-gramming and control of hidas-trial robots and the making of new types of intelligent robots with artificial signi-minous microscopics.

Automiate sautoment used at the Nicoline Enterprise in last the Nicoline Enterprise in last the Committee of the Committee of



HARMONIOUS DEVELOPMENT OF ALL THE COUNTRY'S REGIONS NEW LANDMARKS IN MURES COUNTY

hfures county to located in the central part of Romania, in the middle basin of the civer hearing the same name. It has as area of 3.7 thousant sq. km. It has some 68,000 inhabitants. The relief heating hills, meuntaine, high picine. Forests caver 200,000 hectates. The county has imported geological reserves. The most valuable is natural gas, extracted at Nedes, Sarmosu, Znu da Cloude, Bogain, Sares, Sincal, Microurea Nirajold, which lote of the basis of the development of a powerful chemical industry.

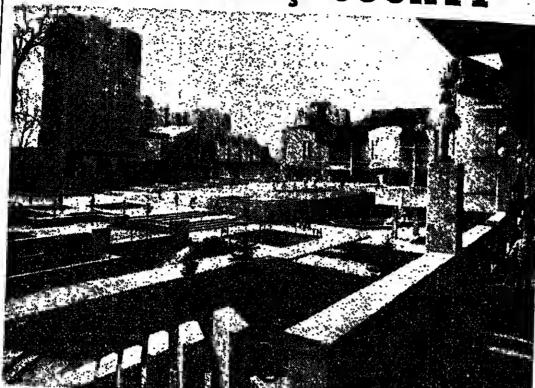
nf lie development of a powerful chemical industry.

Two docation ego, when itemanic's territorial-administrative recognization look place, e process huving in view the mony-sided, equilibrated and harmonioun development of all country oreas, the ment level considered as circlium. The most imperiant branches requilibrated industry, with two notes imperiant branches reas and Transvent, soverel light industry units in Tirgu Mures and flor furniture, and the other one in Reghin, with a notique spoolatty in Romanic, that of mounts aluring musical informacial hocume unpplies of good oratismen far new branches which would rapidly develop. What does this country's occumile structure look that of serious processing franches and sab-brandoosdes; the serious and have developed in the last two machina hullding, light industry, metallurgy, production of illms industry, and pholosonsilivo malerials. And as a tirst in Mores countils of himselfur content of the light industry and tuin of 18 importent industrial units.

Henefitting by favuurable unitural conditions, zoniorhuy greatly devoluned here. 30 means in formatic and illens, content greatly devoluned here. 30 means in formatic conditions, zoniorhuy greatly devoluned here. 30 means in formatic conditions, zoniorhuy greatly devoluned here. 30 means in formatic conditions, zoniorhuy greatly devoluned here. 30 means in formatic conditions, zoniorhuy greatly devoluned here. 30 means in formatic conditions, zoniorhuy greatly devoluned here. 30 means in formatic conditions, zoniorhuy greatly devoluned here.

tuini of 48 insportent industrial units.

Renefiting by favourable unitral conditions, zonioriny greatly devoluted here, 30 persons of farming londy are envired by pusinces and hayffolds... In the county there is nise a powerful rependentian approximation base medicup of six specialized resourch and production should be made of they in the property of the Mures, specialized in ratio — the "Balfata rondnessea" breed, in Roghin, for sheep, in Gornesil for pigs and in Tirgu Mures, for lur suimols.



TRAVELLING THROUGH THE MUNICIPALITY

manufacturing a wide congo of products. From cables for the power industry and lefecom-

municationo to sophiolicated e-

the county's ocal inwa. A po-werful industrial lown. This lown's life compiritely changed when new nulls and rspecially



On pago 4 i the Luxor mapping contro in Tiegn Muros (lop); panoramie view of the tity of Sightyonra (middle); the Woodworking Eniesprise in Rephia Holl); the county hospital in Tirgu Movey (bottoh). On poge 5; the Enterprise for Gerande-Products in Sightyoara (top); the Azemuros Ghemieni Works (cight); the Notional Theatrs in Tirgu Muroy (middle); seems from the play: Domnisoara Neoledia (hits Nastadia) by G.M. Zamiliescu in the reporteire of the Magyae department of the Tirgu Muros Theatre

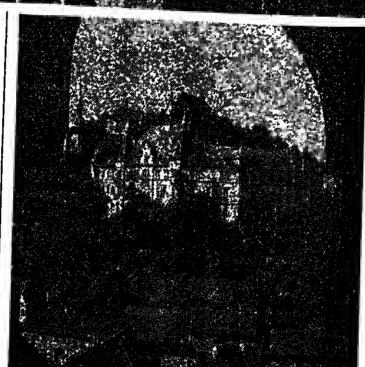
Thue there is an arru of the chemirs! industry, including two units of cathonal interest: "Azamarcey", producing an important quantity of chemiral fertilizers, for Ramanien agriculture and fur expart they need the phalocensilive of the Phalocensilive Film Factary built in the last years. Then there is a big area of the light industry. It gathers lacteries producing toxilio equipment, with which almost not hig enturprises of this branch, built in Homania in the lost 20 years, were equipped, (they are catted "Imatex" and "Metalolehnica"), loather product factories, factories for cotton and all germonis, and a well known anterprise in his loier antional morket — "Muroe" gracules foctory. The wood processing induciry has, by meuns of "23 August" Enterprise in prealigious representative. But prealigious representative. But alectrical engineering und cleetronics have also developed lo Ticgu Mures lafaly, within the "Efectromures" enterprise, made op of five units specialized in

The comminic development nise imposed socin-urbanistic ahanges. Whila two decades aga, the lawn louked like a craitsmen's lown, it is true, a larger one, triday it impresses by its urbanistia und erchiteatural modernity. Over 30,000 apariments have bure hure huit, loid us mayor irmina Buda. And alea now aultural end commorciel huildings. Tirgu Mures boaste a priwork of 14 bight schools specializing to vertoue itelds — aweng whick a fine aris one—leaching in Romenian und hingyer, two highest edurational establishments — one of phermacy and general modicine, the other training future actors hoth to Remanian and in Magyer. As a matter of fact, Tirgu Mures hen one of its maol elegant and beoutiful neitoes ibeatres in Romanian whose of the Romanian and Magyar depurtments. actom of the Rommian and

ghin had and silli hao its switterniamen. One of them, Roman Bolanchuo, created special instrumeous for Goorge Enescioned ten Volco, and for charged violingia in the world who have been highly appreciaity of the qualities and sonortific it these instruments, There is at the formal telephone at the formal director, Andrei Chencel to the sonor violing, guitate etc. that are plade here. In the open years the cotorprise last also specialized in manufactured as seed as skis, topolo cackets and

also specialized in manufecturing wooden sports lient such as skis, tonolo cackels and oraft which were appreciated in a number of trade fairs. It many which the one in Franchist, as well as in productif furniture whose finish and addition of the farmiture whose finish and addition of the farmiture has likely world. The farmiture has likely world. The farmiture has likely oralors at such international fairs as those in Cotogne and Lypn.

Ricghin has long cassed to be a fown of violing aloo. In his last few years — mayor Alexandri Buguardo toid us—see fandustrial areas have cineral hare to metalling fair one his cluding the Republica enterphysical in the fair fair the brait of the parts for this brait of the parts for this brait and all these parts for this brait and all specials lients one where the last blooms lients one where the last braits lients one where the last braits lients one where the last braits lients one where the last lients one where the





THE TOWN SEEN FROM ABOVE

Up on the hill guarding the lown of Sightsoara, the coooly'o secand largest and reonunitedly most important fawn, clands an ald forfress which saw numerous parsonalities of the national history and collure in the caurse of flour. One of them was Michael the Brave, the volvade who achieved the first union of the three fluoration lands — Maidavia, Walachia and Transylvania — in 1960. Nowadayo, a heauliful and smart district hears his name.

A history museum has been arranged in the Sightseara fertress, routaining historical evidence, Parlicularly impressive in the stronghold is the gale lawer, 61 metres high, which also displays an old machanical clack whose figures represent the formee arafismen's guilds. Also here is a raluable organ beloeging in the national pairimony. That

lown fallers have arrangently been concerned with renovoting and restaring this medieval furtress, This is the prida of the lown's inhabitants, amounting and Germans, amounty shown to sense of thousands of touristy.

But Stabiscara naturally dues not live on taurist

seures of thousands of tourists, Bul Sightyuara naturally dues not live on taurist artivities about. Enterprises producing qurmonly, glassware, wood and slik fatorles and latence luve develaged here, sance of them fanous for their teroingly throughout the world. There is also an enderprise making runnelled vessels, and a metalluraled one. The lown, which mumbers more than 42,000 inholdiants to lay, lacked a konsing construction investment programmer before 1068, had in the last low derades over 5,300 tlats have been built here, distributed in several distribits which have been plauned to keeping with modern urbanistic rules.

CHEMISTRY

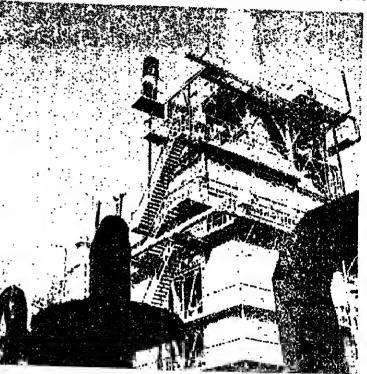
AND WHITE **DOVES**

Tirnaveni, e town boosting o pawerrul iradiilen in the Re-manien ebemical industry, the placo where numerous operia-lists new working in this field all aver the country were trai-ned, cheliere 385 while dayee sione deves actually guerding en ericelan well lying in n park in the very centre of the love.

The idea belongs to line critical ion Crisica who thought out this sculpture as a message of peoce and happiness for all thone massing through fown.

We learnt more about this softlement from its mayur, Vasile Bifijun.

"The fown is very old. These days it will celebraic 710 years





since its first documentary ni-lestation. Telling evidence of the old civilization is to be lesinium. Teiling evhience of the old civilization is in he found in the inwrist museum act up in 1989. While speaking of the present is its industry—chemistry; we are the soft producern in the country ni carbide, u product requidred by the chemical, fron-and-sicel and mechanical engineering lodustries; of sodium dichronoile, used by the tight luduotry; of burium suits, needed by the electrical ongineering industry. The chemical works of Tirndveni exporto its predurts to over 30 countries. Although it is dominated by this lodustrial clisadel, the lown moons more than their A glass fectory was build and several handleraff units were set up, mennt to employ the femalo workforce,

"In mother line of thought, I though wend mecondary schools, several outto-rai establishments and o recreationed uren including an olymple swimming pool, lennis courte, soliarial in and headled menter.

swimming pool, lennis courie, volleyball and headholl grounds. n einemn helf and a mieli take on which water oports are pruoticed. Over the lest 20 years we have built more thoo 5,400 flate districts."

M. CONSTANTINESOD #

A VILLAGE WHICH IS NO LONGER A VILLAGE

Icrnui is not a lowo, but it is no longer a village either. Lying only 36 km away from Tirgu Murce, it used to be a small insignificant locally in the Mores Vatley, where half of the houses were covered with reed. Today they can only be seen in the pictures displayed at the commune's museum opened four years app. As mayor: Vasile Cornet told us, during the last 30 years formule has seen the construction of a therrispower plant with an installed capacity of \$60 MW, which in \$5 days supplies Remarks's coline electricity output or 1033. A modern enterprish for number and forsse with en enturel capacity exceeding 200,000 tons, a utget broading complex, a buil breading one, a fish lasts, until of the small-size loducity, handlerst and consumer consensitives.

As a result, Idrain has become a argo industrial against some steeled lasts, which impart to the non-time analysisms positions at a stributes of a solitement in itself sacchanding progress.





Electronia Computers Enter-

prise.
What are the advantages effered by the new installetion? Here is just one of them: it used to take one about two items to check the quality of o sled sheet threugh a classical defectneese. The new methad condies one to issue a control bulletin in its than 15 minutes, including general data on the gualess than 15 minutes, including general data on the qualing general data on the quality ut the product and a niup of pessible manufactoring tlaws. The latter is altarhed to each metallic part, immediately effer its scenning, and by displaying each flow, it helps establishing its area of utilization.

The installation is applied to a wide range of streets of

The installation is applied in a wide range of sheets of rurbons alzes and inleknesses, from those used in hullding power plants to those used in tartenfure. It is worth mentioning that the technical solutions adopted can be extended to installations of the same kind necessory in unclear nower.



COMPUTERIZED MANAGEMENT



More than 1.3 offilion tables of Eridiocom were produced at the microproduction laboratory of the Cluj-Napoea Agronocale Incititic last year. An original drug developed on the basis of plant extracts, after mony years of researches, by doctor Roman Morar.

How did he come in develop the extracts, after mony years of researches, by doctor Roman Morar.

How did he come in develop the extracts, after mony produced in the street of the extracts, after mony years of researches, by doctor Roman Morar.

How did he come in develop the extracts, after mony from an ulpited and generally and cloims for enhand brunding?

A graduate of the Buchares of the Enchart of the deals of 1961, declor Roman Morar worked for alx ears at the Ghorla State Agricultural Enterprises. In 1970 he delended bis decoral paper on a surpelsing theme. It dealt will some less studied quecifons concoruing the occurrence of diseases in salves on their fired days of life. Following a lost, he was appointed to the Faculty of Zooleehny and Velorinary Medicine of the Indian State of th

laneous flora, to which glue cose, lactose and other in-sredients are added, being rich in active principles, No-tamins, mineral sails, (ap-tins, vegoial acids and pro-tins. It has no toxic cide at a fecis. The utilization in pre-venting, and fighting non-venting, and fighting non-iffo posinal all disorders, con-terilis, coulity, visids, very terilis, collis, yloids, refilis, collis, yloids, refilis, collis, yloids, refilis, collis, yloids, refilis, collis, ac that it she applied to other animal species as well, But its area of application secms to be even wider. Eridiorom, aiready issied in humanis, preves its inconstitution to diction too.

LUDOVIO ROM



Set up in 1969 as part of the Contral Iostitute for Management and Informatics, very much like uther uoits onaking up a true national informatics network, the Territurial Electroole Computing Centro—CFCE—io Cinj-Napoca has carried out to o first mage a sheady activity with a view to introducting intermation theory in the socioerunomic units of Ciuj couciy, While in the first years the fields approached perialned to operative situation reports, with the passage of the operative situation reports, data processing for enoning and organizing the autivities of preparing production, of programming, starting and supervising production, of following orders and supply-sale contracts, of administration of material assets.

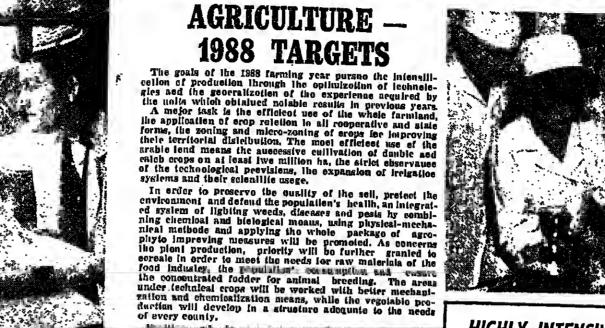
derial assets.

After 1986, the experts of this computer terhnology sector have developed their research activity as a result of complex requests from Iodustrial ensumers. It has been coupled with the remarkable of computer technology, through the appearance of milliand microcomputers together with such graphic devices as automatic drawing desk, digitizer and graphic display rapidly introduced into the utilvity of his openitoned ventre. This has mede possible the working out and implementation of programmes such a greation, recently deviced in Ciul-Nanger.

meant fur computer-aided research and design.

Such a creation, recomity deviced in Ciuj-Napoca, was introduced to us by Vasile Peteanu, DSe, direction of the introduced to us by Vasile Peteanu, DSe, direction of the introduced to us by Vasile Peteanu, DSe, direction of the introduced to us by Vasile Peteanu, DSe, direction of the introduced to us by Vasile Peteanu, DSe, direction of the introduced to use a simed at the operative and interfect interfect of the control of the control of the interfect of i

In industrial enterprises, the INTERCOB package can de used for solving problems of placoling, coutpment loading, minufacturing pregrammes. At the same time, the package can also be used for training technical personnel and lospreving their periormasses in runcing economic activities.



Pattitive and who growing, annough they will benefit by a soughter area, will cusure higher productions through the reorganization of old plontations according to intensive and superiotoosive lestiniques.

In animal breeding, the main objectives for 1988 are the growth of the calife and sheep livestock the calleal imprevenent of feeding and tending conditions, the moderalization of entural and positive farms, the development of becausing and sericulars. The plan slipulates complex measures of fertilizing and improving pastures on 4.4 callion in. Methods of intensitying the production of green ourse through double and successive crops included, will be introduced and expanded to cultivated pastures.

Special attention will be paid to entending the degree of

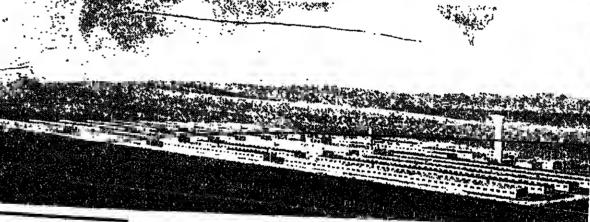
Special altention will be paid to enhancing the degree of merhanizing all calegories of farming works. Farming soleoilife research will provide new strains and hybrids as well as better technologies which will allow of enhancing the global production by tive-5.5 per cool and like nel production by aix-6.5 per cent.

EQUIPMENT FOR THE BUILDING MATERIALS INDUSTRY

A group of Remanian opeolalisis
sign the sindy Uniloju pentru industrin materinicior do construcția
(Equipmoni far the Bullding Maleciels Industry),
prinicil by the Technical
Publiciting House in Burharest. The book exteosively deale with the
cooception, design, bullding end operotion of oil
types of manhines, losialicticos and equipment
used in this industrial
brouch. Elements ut tunetionol calantus, strength,
assembly systems, mainicoance nod repair are
infered,

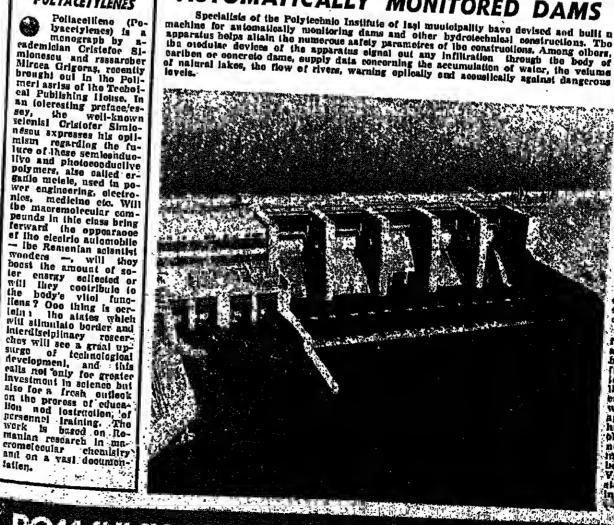
HIGHLY INTENSIVE ORCHARDS

The specialists of the Tren Growing Research and Production Station in Inst ore the authors of a new technology of highly intensive plantifican of apple, near, unince and sourcherry freez. It was successfully applied on wide areas in the farming area of layl caunty and theo extended to flucture and other areas of the rounity. Such an apple-tree plantifical caunty items and other areas of the rounity. Such an apple-tree plantifical caunty items and other areas of the rounity. Such an apple-tree plantifical caunty items and other areas of the rounity. Such an apple-tree plantifical caunty items and other areas of the rounity. Such an apple-tree plantifical caunty items and other areas of the rounity. Such an apple of the rounity is that the rounity. Such an apple of the rounity is that the rounity. Such an apple of the rounity is that the rounity is that the rounity.



AUTOMATICALLY MONITORED DAMS

Specialisis of the Polytechnio Institute of Iasi municipality have devised and built a machine for automatically monitoring dams and other bydrotechnical constructions. The apparatus heips altain the numerous asfety parametres of the constructions. Among others, bariben or concrete dame, supparatus signal out any infiltration through the body of of natural takes, the flow of rivers, warning optically and acoustically against dangerous levels.



MODERN EXTRACTION METHODS

Technological lesis have started on an important investment project in the Romagian oil and gas industry: the Videle-Vest compressor station. The special significance of this station resides not only in its high technicality but rise in the opportunities if offers for expanding a modern expression technicology—in oil combustion—an officient method of embanding the drude recovery degree.

The application of in site combession at Suplaced de Bor-can for bastance increased the recovery factor from 10 to 47.5 per cont. The in altie combustion carried out on this deposit is the varies in the world.

deposit is the variest in the world.

Remains nitiones appets! Importance to enhancing the final factor of crude recevery. All present, over 250 deposits are subject to various literant and chemical recevery metacodes. Since 1974 when the Programme of enhancing the final recovery degrees was adopted, thanks to methods and tochnologies worked out by Remanian experts, over 25 million long of oracle were obtained in excess. Recovery indicators higher han the nationwide natures were obtained and excess. Recovery indicators higher han the difficultatory as a whole, the overlands recovery degree has grown by 2.8 per cont. Measures have been taken for a recovery factor of 42 per cent. Measures phase been taken for a recovery factor of 42 per cent. Measures phase been taken for a recovery factor of 42 per cent. Measures obtained in 1888. These pressures include his building of now compressor stalleds, of new instabilions and aguiption, the inforcement and diversification of methods for vest will provide 16 million cum of air daily, it is first than the first property with all his all in the property of the compressor stallers at violets.

GEOTHERMAL

ENERGY

The work Geothermal Energy strand by Martis Albu, D. Eng., analysing the geological and thermody-

namio aspecis of the three point phenomenon, the forms of heal propagation, the propagation, the particularly less of the propagation of the particularly less of the particularly less of the particularly less of the particular le

grothermal systems in Ro-minis and the world has

minds and the world has been recently put out by the Treubulor Publishing. The book desortion methods of evaluating exerces, and of exploiting the rocks' heat. At the same time thermal installing and the rocks and the rocks with the same than the same than the convergers and the rocks with the same than the same the published to be convergers used in press with the same the rocks.

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ROMANIAN NEWS

POLYACETYLENES

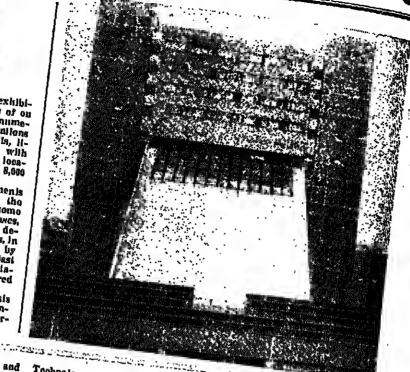
energy solicated or

will liey coolribule to the body's vitol functions? Oos thing is ocricin; I have a state which will stimulate border and interdisciplinary roscerchos will see a grant upcare of technological development, and this calls not only for greater investment in science but also for a fresh entions on the process of clucation not lostrotion; of persennel training. The work is bused on Romanian research in macromologular chemistry and on a vast documentation.

* ROMANIAN

· ROMANIAN

In Romania, there is a modern and complex education included by the primary achoose and some 1,000 that solves it in a symmatia and some 1,000 that solves it in a symmatia and some 1,000 that solves it in a symmatia and some institutions has reached 44, including 101 denis, AI present and of 16,000 that insuling 101 denis, AI present and of 16,000 that insuling 101 denis, AI present and of 16,000 that insuling 101 denis, AI present and of 16,000 that insuling 101 denis, AI present and of 16,000 that insuling 101 denis, AI present and of 16,000 that insuling 101 denis, AI present and the solvent insuling 101 denis denis denis desired and present destinations from a certain farm of cancaling 7 What happens of these which they workers after being hiered by producing the young workers after being hiered by producing are interested in 7 There are various means of uniterested in 7 There are various means of a constructive of the space time? In each of the sp



The flower of Science and Technology for Youth was hanguroled in 1984, all mag, in vrances, county. This modern building where a racileal scirilloo with scientific and enforced out.

In 1988, a modern Youth House entered out, the educational circuit in Craleva, the seat the educational circuit in Craleva, the seat that north-western part of that town has an auprophy, a bole accommodaling 86, a restaurant ele. There is also an amphithesize of 150 seats Cultural-artistic and lechnino-scientific increde also found in that building.

The new construction is imposing by its meou-ciental sobriety counting from the sevece geo-molry of the facades. It was dissinced by a collec-tive made of architects Don Budico. Nicolela Physicsen, Bogsian Polizu, Sichut Sertis, en-and fon Diacenu. Mihal Moine, Ion Millary

A Reuse of Science and Technology for Youth was inaugurated in fiala Maie belongs to apecialists from the County Design the Construction—Execution General Entorpelso and the new installing has an equipped rooms 126, a club, 12 specially elected a picture, a picture, a political-identograph electron montains to make the property of the new installing has an equipped rooms hosting technical applicative montaiton room, a political-identograph decomposition room.



Al the end of 1987, the design of the House of Science and Technology for Youlk in Statium (Oit county) was awarded a silver medical, the special prize and a diploma of honour at the World Biennial of Architecture interarch-87", hosied by the Bulgarian oily of Sefin. That design was signed by Barbu Emil Pepescu, associate professor and Sielan Daria assistant professor at like institute of Architects from 37 countries presented works at that international evons, The House of Science

Technology for Yenlis in Slatina was lucusmented in August, last year, it was built by a collective of the industrial Construction Enlectrise in Sintina, Localed in the centre of the municipality, the nerv building offens brond possibilities of organizing complex events with cultural, educational instructive and recreational character. Besides a show half with 500 seals, the an open-air amplificative, cloves rooms specially equipped for the oolivilles of technical faptionally officies, a political-

enmonintime raom, an exhibition

vices.

Architect Barbu Popeseu le the auther of numerous designs of incidence in the angle of incidence in the Young generation: the Youth Heuse to Tlega Jiu, (Gerj coanty), "Stadent fork" in Bucharest, the Complox for Youth in Media (Siblu county) and the recretional mue at Bascov (Arges county). For some of these designs the was an arded peizes of the Archituoles Union in Romania.



ROMANIAN NEWS

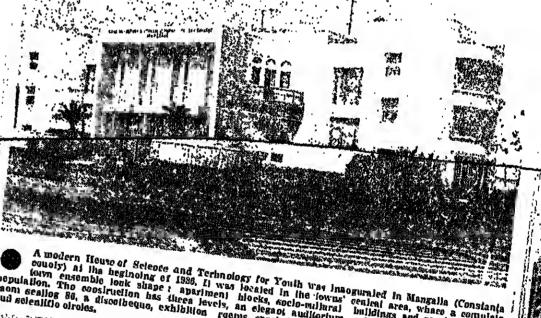
Clips. At the performance half of the modern House of Science and Technology for Youth in Tiegn Mures (400 scales and a mobile stage which can he arcanged in several vaciante), there was a great commotion. A broup of amateur artists were rehearsing the play Gradina cu translatic (The Ross Gorden) written by the lost playwright And Andeles. The rohearsal was closely supervised by Aurel Stefanescu, peofessoe at the Thealer Institute and a wolf known actor of the National Thealer Institute and a wolf known actor of the National Thealer Institutes and a wolf the oberds of folk music from an adjacent ball one ceuted bear the oberds of folk music from the Mures and Tirnave Valloys. Entitle Pacietis, a musical institution, icid me that the falest folk shows given there had enjoyed a warm reception from the nusic the shows given there had enjoyed a warm reception from the nustic. The show but do had as guest stars acveral threstighner Transsites and on Dunnitirn Farnay, Veila stars acveral threstighner Transsites, Gheoryhe Muresau, violena to the total up of 33 young members, a holire and modern dance

conceived, ahout the circironics, electrical engineering and magnetic properties by the Electromuces enternrise, on a of the most important industrial units of the most industrial units of the repair and driving, about those of industrial the most industrial units are standard eventual electricities are standard units and industrial the library while for the time being comprises 7,500 volunees.

The House of Selence and Technology for Yunth lying in the university centre of Tirgen Mores was opened three years ago. The design, happily combining volunes drawing on the succificity of Transylvanian architecture with modern huilding majorials (alass, unclaid ond marchic) was made by a loan of ecohilecty headed by Ghonyes Tiberta, frum like Muces county design laxithute.

Clips, when leaving the huilding, accompanied by Minall Infa, director of the Hause of Science and Technology for Youth I could bear musical strains coming only of the base-ment, I way told the disro pro-





A modern House of Science and Terbnology for Youth was inaugurated in Mangalia (Constants form ensemble look shape t aparlment blocks, socio-cultural buildings and seed a complator and science looks, socio-cultural buildings and seed a complator and science looks, socio-cultural buildings and seed a complator complete seed a complete seed seed a conference with 363 seeds a conference of conf

groug (new greparing a review show), a tolk dance onsemble which bad been recently set up account the rioh heritoge of furning to manian and Magazar dances of the instructor tolk of the furning reasons as observed the furning of the function of the funct

was an inferesting painting ex-hibition featuring painting ex-from that eegion. It has one of the 30 fine aris exhibitions epe-sional artists. They were coor-dinated by ha local beauch of biania.

On the groundries.

inc Plastic Arlists' Union in Relic Plastic Arlists of Invensolutific and technical fleids. The
varions industrial fleids. The
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varions of this institution. Last
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gramma had started. The discallingua is hosted by a large ball oquisped with every madern facility: programmers, colaur organ, stroboscope, foudspeakers, special sound effects.

The disc jorkey was Just Infro-ducing a new bli performed by Madonna, Pages n'ellion &



all major lowns of the country. They listened in lectures strently valuable Romanian specialists and researchers, including peofessic angineer Vitalie Helousov, D.So., from the splintering looks choir of the Mechanism school of in Mechanism school of invention selence.

The house of the Mechanism school of invention selence.

tion science.

The house of culture for yould in the municipality, head of last county was officially opened at the end of 1985. This modern construction boards a minister pose 160-seal half where scientific debates and scottings are stated, several rooms has ing the collytics of various official electrons, foreign languages, photography, thouses, maderial design of this califor was made of your series after the design of this califor was made on young stentions transfer the instance of the languages, the instance of the languages of the califor was made the languages.

MESSAGE ACROSS THE CENTURIES

Renking front among the nemes of linese who revolution ized 20th-century line arts is cortainly that of the Romenian sculptor Cocalantin Brancual (1876—1857). Represented by works of a remerkable assibility scope in the world'e great museums, from Europe to America, the crist born at Hobita, a small actilement near Tirgu Jiu, made the memory of his people last for ever. Thus, his numerous works lectude the lamed group of stalues of Tirgu Jiu comprising Poarta sărutului (The Gete of line Kiss), Mese tăcerii (The Tebio of Silence) and Coloano lără silrșit (The Endiess Column), pieces where ancient echoos are hiended with an aculo aense of the modernily of forms. This act so important for this coctury's moousienial art was insugurated half a century ago. The cialuary group now part of the Romanian and world herliage wes the truit of tremendous ciloris cod of a vigorous wish to renew monumental soulpture. The glited stone-outer worked for acerly two years of this monumest designed to olerealize the memory of Romasice herces who lell on the batticiloid while deleading its onclont leed during World War Oce. Twenty-two years alter those example-seiting bettles for preserving the neilosal heing, that is half a century ago. Brancust peld a cuprome homego — an est of world artistic resonence —



NEW BOOKS PUT OUT BY THE "CARTEA ROMÂNEASCA" PUBLISHING HOUSE

THE USSR. The Sovial — Romanian Irlandship association, in collaboration with the Siale History Library of the SFRSR, organized an evening devoted to the celebration of 88 years since the birth of itemmilian writer Miliani Sebnstits (1997—1945). The

lish (1907—1945). The nddresses spoken on this occasion pointed out 19 the varigated notivity of

the writer, laying the stress on his activity as a playwright. At the same

time, the importance of the mulual knowledge o the cultural life in the two countries was polel-

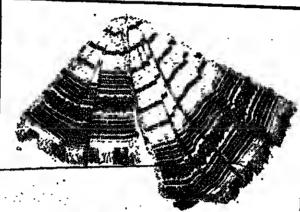
Cerica Românenscă, publishing house of the Homaniam Writers' Union, printed lasi yar 133 tillies in o total 2,733 million copies.

Righl of these lities represented the increase of the avance of the lities represented the increase of the avance of the lities represented the increase of the avance of the lities represented the increase of the avance of the lities represented the increase of the avance of the lities represented the increase of the avance of the results of the control of the results of the results

IN BRIEF

lae), whose premiere, look place in April 1986, has registered over 1.5 million speciators until now.

Minerve Publishing liouse in Bucharest has concluded numerous orlifeel series of the works of certain representative Romenian writers; emong others, Gheorghe Assechi, George Bacayle Cost. hi, George Becovia, Cezar Belliac, Ion Dudai Belescu, Bellac, ion Budal Beleseu, Dimitris Caniemir, ion Creangă, Barhu Şieläneseu Delavrencea, Nicolac Fillmon, Gala Galactice, Autoo Holban, Garabei Ibrăllesnu, Stefan Gelavien Ierallesnu, Slefen Ociavian Iosli, 1en Neculce, Antou Panu



THE TRICOLOUR AS AN EMBLEM

The Romanien iricolour has asserted listly its moral significances of fruth, of prido to our national roots. A whole exhibition of peasent fabrics, opened at the Village cod Folk Art Museum to Buchereel, rovania the fact their the tricolour has been and conlinues to be the proof of a coral option, a whole people's way of looking inwardly, of remonihering its geouing human essence. The durable assets of the national pairmony embodied in these lolk art objects, through their presences to this exhibition, have ecquired a most topical status. The costumes from Succayo, Oli, Apuscol Mauniana, Bucovina, Ared, Zarend, Biher, Prahovo or Vrancee, line wall carpets from Dobrogea, Meramuros, Meldovo or Distriga-Nasaud, the towels from Fágáras and Vrances, inch heits from Benet, the shirts from Vrances and the edge-most from Diher, Oas, sieldova or Basel all chow that the tricolour, as a presence to folk eri, has been en essential lactor of elvic crystallization with a highly eignificant patrictic role. The Romanien tricolour has ascerted lisell by it

CINEMA

The Remaelan Illim sludies at Bullea, a townlet lying about 20 km anay from the coentry's capital, produce an average 36 full-length leatures annually. Apart from these sludies which here love film sets, workshops etc., Remanta also beasts idevision sludies, a decumentary film studie (with en annual production of 200 illins), animatice studies (35-30 illima annually) and the army studies. The clineastes croeducated at the Buchereat Thesire and Film institute, which has three departments; acting (orders are olso trained at the Tirgu blures Thesire Institute), direction (which teaches the fullure direction and secondrists) and showed ed at the Tirgu filures Thealro Institute), dicection (which teaches the fulure directory and secnarists) and sinomotegraphy (for mailon picturen and tv). Stress is loid on
litails-on training and the sludents' own oreativity. In collaborolloo with Buffes and other studies, lirsi- and secondyear sludents make 10 mm litins based on scenarios they
wello themselves, which represent their and openions they
wello themselves, which represent their and openional
lilms, thus combining theoretical and practical training,
which has earned the Romanian Illm acheol many forolog
sludents; Currently sllending the institute are eindenly
from Syrla, Vanganeta, Mexico etc. Romania has eigned
film agreements with itsly. France, Morocco, Vest Germany, the Soviet Union for copreductions cod specialist
exchanges, mokes popenduotions, with nearly all conclisi
couciries and offices acrees, tochnical assistence and exportiac for illms shot in England, the USA etc. There are
more than 4,000 cinemas in Romania. Ont of the about 160
films shown in this couciry onnually, 30 ore Romanian,
lumania participates in some 15 international film lootivals.

VERA NEAGU E



ROMANIAN NEWS * ROMANIAN

O ROMANIAN



GALLERY REVIEW

Malyas lasti, palater and graphic ortist, chairman at the Dova branch of the Union of Fine Arlists (Hunedocra county), graducied from the Ion Andressau Fino Aris Instituto in Cinj-Nopoca in 1930. In the following years, s rich arlistic career highlighted on onistanding artistic hadvelantity. A fruly expressive setist, evincing vigorous drowing force end colours, Malyas losti kas approached balladic themes, ims drawn on humediale reality, on the beauty of the environment, arging us to value the successive artistic for a comprehensive retraspectice. Managar State and Colored to high color of the



de, Lsurențiu Fulgo, Nicolec Tăulu, Dragoş Vicol, Nicolec Tăulu, Dragoş Vicol, Nicolec Ise Jienu, Eugen Barbu, Radu Theodoru, Călin Grula, Benu Rădulescu, Peul Asphel, Doru Devidoviel, Gheorgho Dejeocu and olihers. The acitolegy was iransleled by Lilis Pavieva.

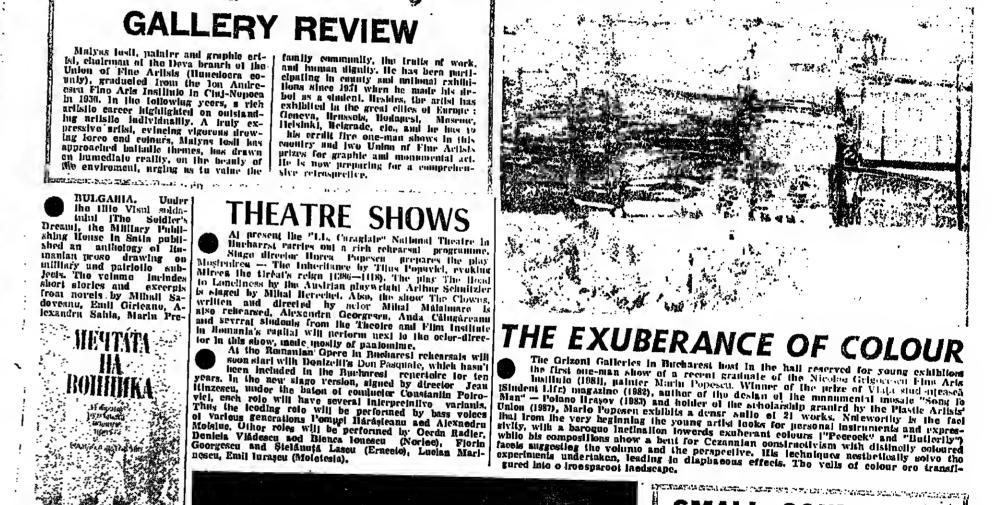
YUGOSLAVIA. The KNIJEVNA REO megiszino in Belgrado included; under iho titlo The Iniellociual and Lilerery Critic as Cultural Hero, iho address presonied by Remanice erlic Adrien Merino at iha 25th Wrilers' Internetional Mecling in Bolgrado (October 1987); the translation into Scribine-Crealice is signed by Morienz Dan and Liubilze Milolich.

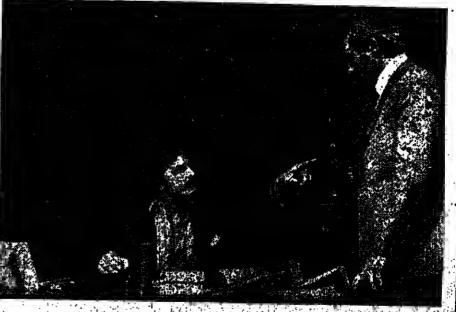
COMICALITY AS REMEDY

(1971). State of (Everynold's Interest) (1971). The play Sfitted Milles Hadjant Is, for the Luncold Theorem in Borbarest a show which represents the text in 18 hash artheutations. Stage director Valerin Mulseson has given a modeon reading to the play: Millest Is forced to refer the simple deem, in kreplug with the affler, archives althougher, with anothered case-locatis, having the colour of dust, is signed by scene painter Pulu An-

Two years after the Little Thealro in thickness presented the play Mielul turbat iThe Furlans Lamb) by Airel Beranga but a new generation of specialities, stuge director Valerth Milicensi at the tunnelly Thealro proposes a new version at the play Sfinu Milica illajiam (Mild St. Milica), which belongs to a comical ryste whose start was Michal bridge (Mild St. Milica), which belongs to a comical ryste whose start was Michal bridge (Mild St. Milica), continued by the above mentioned glay (1966) Opinian publica (The Public Opinian) [1967] and inferient general (Everybody's Interest) (1971).

The play Sfinul Milica illajiam is, for the Tomedy Thealre in Burcharest a show which represents the text in its laste aritentations. Stage director Valerth Mulseson has given a modern reading to the play: Milica is a milical place in the play: Milica is a milical place in the play of the staglag. In Milica is a mangel of the injusite. The actor builds the character in its natural data. Stein the afternoon as Adda and the base with the matter and the base with the staglag and in a material data. Stein the afternoon as Adda and the base with the matter and the base with the staglag and the base with the matter and the base with the matter and the base with the matter and the base where the character are placed in the base with the matter and the base where the character and the proposed and the base of the matter and th builds the character in its natural data. Stein Papeign as Aifela, with her well-known naturalness, passes from the hypustasis of the quiet lypist to that of an "necomplico".





WHAT IS NEW?

Liublize Milolich.

WEST GERMANY
The lates number of the ARCHIV FUR
DAS STUDIUM DER NEUHEN SPRACHEN UND LITERATUREN MACAZINE
(221, D. 138, Halbjahresband, 1987, Bages 124—129). Adrian
Merino published a large connetoniary on the volume internationale Bibliographie for Komparalistic (1885). The author adds several neder Komparalistic (1885). The author adds several neder Komparalistic (1885). The author adds several neder Komparalistic (1885). The author adds several nedilographic remarks to this intercellonal reperiory which is cludes all the theoretical and methodological contributions of Romanian componilists.

(Constandinenti) and Piston Parddu (Lung de micro — Honeymoon). Also prosent da he sisto will be pinys by Mozine. Gorki (Veira Jetemova) Scinersol Mangham, ole. Imperialet soider will have the occasion to meet the public in great folies at Romginal and Torolina drams, At the meme time, the spectators of the National will see now receive and monologues; in shows of postery, muste and monologues; in shows of postery, must be proposed on special in the country, committee a programma in abundant is weakly shows, assume in a problem.

SMALL SCULPTURE BIENNIAL

entropies and the second control of the control of

The biennini eaton of amati eculpince was stoned all lbs Ari Calleries in Arad under the aegis of the Romanian Pissile Aclisis Union ned of the Committee of Socialist Culture and Education of Arad county. Gothering over 100 small-size works belooging to sculpiors of various ages from all paris of Romania, the exhibition was a remarkable artistic event. The exhibitors feeluded Oridiu Matice, Nepoleon Tiroe, Ion Deac-Ristrita, Mihal Duculol, Emil Vitroe, Ion Deac-Ristrita, Mihal Duculol, Emil Vitroe, Dumliru Sorbae, Ipu Iencut, Ioan Tolen, Elena, Scutaru, Della Drindusescu-Berbae, Zoo Pop, Judlib Reyed, G. Ahritan, Soedu Vasile, Liviu Rusu, Rudelf, Korais, Aurel Viad, Ionel Chighifa, Dumiiru Pillalau, Rémus Dragomir, Cheorshe Aldea, Ioan Cludoa, Mihal Phourar, Ioan Delborea, Violor Gaga and others.



ROMANIAN NEWS

* ROMANIAN

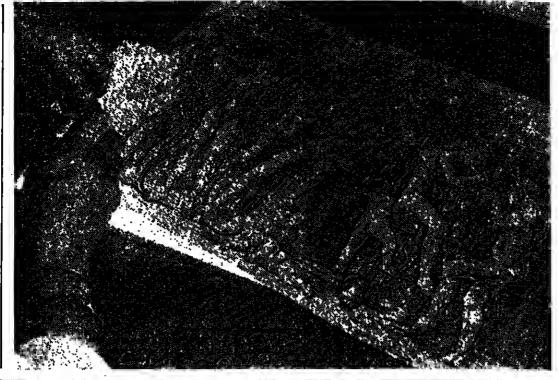
ROMANIAN

PRESERVATION AND RESTORATION

The restorollou and preservation of some valuable assets in the national outlural pairimony, part of which have recently been un-earthed by archaeological diggings, while others already belong to

In Cluj-Napoca there is a laboratory specializing lu these kinds of activities, It is one of the best and best equipped in the country. There a rich mutarial coming from the large archaeological siles In Transylvanin has recently been studied. Ontatanding are the allver heard of Blairila and a Roman Jackat of mall an cloth discovered on the territory of ouelent Polaissa. The same laboratory is now working on the slatuary groupe on the façade towers of the National Theatre in Cluj-Napoca which require a minute recloration work. Among the pottery flows recoully turned to advantage worth mentioning are the torra significant moulds uncovared at Micaassa, which posed difficult restorotion problems because of their ago; the Neolithic vessels identified at felod; numerous vases sad rushlights discovered at Ulpia Traiana, Casel, Cluj-Napoca and Gradisica Muncolului, as well os ancieni, mediaeval and modern glassware, fragments from a rich collection of tiles.

As much talent and minuleness tay at the hasts of the restoration of some wood objects : the baroque slaines at Cherla, Avrain Inner's olponitors, collections of pliciforks belonging to the Elimographic Museum in Cluj-Napoca,



LEAVES IN THE **LABORATORY**

The sindy of the therapoutical values of modioinat borbs is to phormacist Zngoni Einier, D.Se., of Microurca Ciuc (Haeghlia county) a real hobby. The subject of his diploma paper at the Medical-Pharmaceutical tustitule was "Fileck Current and the oul-Pharmaceutical instituto was "Black Currant and the Hypolensive Effect of Its Leaves". The results of his researches have matecialized to many phormaceutical products onch as I Hiporib, Riblier, Riblier compus and soveral syrups. For these products, the author carned an hypolesis, application the hivenlor's ceclificate, the praises of the press and, above all, the apprecialions and benelliled by their beating olfocis. Like other researchers to

the field, dr. Zegoni Elmer started from the existing irmilition of using the various pinnts. No doubl, befora oxportmenting with thom in the laborators, be ther-oughly studied their therapeutical qualities. That is bow be developed the hypatensivo phylotherapouticol product which lay at the ba-Hiporlb ond uther drugs.



Al the end of last year, the Sports-Tenrism Publishing Honse in Bucharest issued the volume Filalelia de la A le Z (Philalely from A to Z) by Marcel Dacescu, it is in fact the first Rememian philatelle dictionary.

This synthalia work offera the readers terms referring to philatelle methodology, to the orderia cod exigencies of the stamp collector's work, lecknical terms referring to the paper, ink and methods of printing stamps and postal stationery in the past and at present, information on the organization of a collection, on the history of the Remanian mall which boasta long-standing traditions and ee world postal history, dotails on the activity of feroign posts which coese operated on Remania's territory. At the same time, it presents in detail the national and international hodies and institutions involved in the philatelle movement, the congresses of the Informational Federation of Philately, the member states of this organizatioe, the international exhibition sponsored by the fadocation.

Ample specialized information refers to cancellations and everprints, to the Remaulau philatelle press, to the countries and territorius which issue stamps, to personalities who contributed to the progress of philately through their activity.

Philately from A to Z has a foreword and a list of terms translated into English, Freuch, German and Russian.

M. CONSTANT

M. CONSTANT



"We have noticed that 4ho shape of the autometic of the future will resomble very much the shape of the body having a minimum aerodynamic resistance, and for that purpess, ils body will have a single, conlinuous surface, closed undermeall, lacking superstructures, its lights and horn hoing all mounted inside, al the tevel of this surface which will no tenger have wings or exterior slaps".

This description of the medern automobile was not recently ma-de. It was rule by a little ha-manian engineer and mechanic, Aurel Fersu, over 60 years ago. How did he reach the technical conclusions that led to the build-ing of soveral aerodynamic-shaped automobiles? As carly as his university years — he sitended the Higher Technical School in Borlin Charlottenhurk - ho sludlad mechanics, and aprodynamics, being one of the first people in the world to intuit the

romarkable influence of air re sistence on the odvices of ac automobile. On the basis of his theoretical-oxparimental re-search, the Romanian engineer hulli in 1923 the linst automobile hulli in 1923 lite Hist antomobila with a corroct aerodynamic shape. Ona year later 11 was pateniod in Germany, where it got the levellen patent No. 403,683 under the name: aerodynamic shaped automobile with four wheels inside the norodynamic shape. After over 100,000 km of oudurance tests through Europs, the invention was patented in nother 16 combiler, Notavorthy is the fact that the "Ford" and "General Motors" plank asked to buy Persu's invention, without pledging to build sulemobiles on the basis of this li-cence, which made the author turn down their offer. It is not aroldental that we

mentioned this automobile so-out which its creator said it-bad to resemble a falling drop of water, It fastures numerous: alonomia which were sousedus antly assimilated in our makiog? al the time when planes were slill made of canvas, Aurel-Persu made ils body front \$ 1 light and resistant malerial audination. He was and of the first to introduce several of acultat characteristics; he had not the back the back the while the whoels were incorporated in the acrodynamic holy.

rated in the aerodynamic body.
Mereover, thanks 46 flo shaps, fuel consumption was very few.

In 1983, the Romanian are near who had subsequently applications and bedding in a subsequently application in a member of several solar filts and technical societies without and abroad, donated copy of this kind of white had; under his supervise Berlin, in 1982–1983, with the Dimikire Leonida. Technical Museum in Blichard 1988 in 1984, in 1984, and a series of the section solar of the section so



A CLOTH MANUFACTORY IN THE 18TH CENTURY

Affiliated to the History-Phi-losophy Faculty of the Bucha-rest University there is on Ottoman studies office. At a recont meeting of the specialists working here or collaborating with the office, professor Militali Guidoglu read an original paper. The investigations of several Olloman archives have revealed Olloman archives have revealed oumorous interesting facts and data. Among them, there are lired manoirs of one of Moldavia's volvodes, Grigoro III Ghlon, dating back to the middle of the openent decade of 18th control in these documents, the tury, in these documents, the ruling prince of last presents lite clock to build some lactories, meant to meet the acuin ceeds of the Remackan society of that time, Thus, a cloth manufactory was hull at Chipocett, near last. The documents entity that near this town, the Moldavith ruler erocted a rises foundry. Retainmentary was the prince's conviction that in a

Restorations of valuation works of act are offseted in the specialized fate of the museums (lop and contro). The automobile conceived by Aurel Porce half a century are, still in seed shape (oday, was denated saverally years and the The Restaurant of the Museum of Science and Technology in Buchartes (bottom)

short time the cloth of Chipe-resti would he as good as the similar products brought from ahroad. What makes these documents

outnotory, as well as drawings of some tools used in the ma-king of cools is brushes, selssors, ring of books in rushes, sessors, presses, combs, are annexed to iben.

The new data round off our knowledga of the beginnings of our oatlonal industry.



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 Various vacation opportunities
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sori, trips on routes at the por-son's choice, can participate in fairs, symposia, conferences, vi-all museums and areos of spe-cial folklore interest, with the personal oor or thosa rented from "Carpajl" Nallocal Travel

from "Carpaji" National Travel Office.
Ordup Iravelling la orgadized for vacations at the sea side, in the mountains or combload, both at the sea and in the mountains, to all country areas, for rest, baineal cure, regardless of season and period of tima. To that are added: organized travel, accommodalloo in ordern, comfortable hotels and villas, food in restaurants with difformal specific, multiple recreation means, all at coovenions prices.

WACATION ON TITE
BLACK SEA COAST.
The ten reserts of the
Remselsa litteral: Manuala,
Eferte Nord, Techtraphol, Eferte
State Coalland Wagies Lighter Sid, Coslinegti, Nepiun, Jupiter, Venus, Saturn and Mangalla, offer excellent conditions for

Among the most imperiant cuentive lactors of the illiteral we moniton: the sapropolic mud and salt water of Techirghini laka, mezothermal sulfureous waters (Eferia Nord, Mansalia and Neulum baineal camping) and one poorfit but he salt. plox) one can beeefil by in any

All spas have modern, comfortable hetels, restrurants with specific characteristics and various recreation means, acrording to all tastes and wishes. Tripa ore parmanently organized to all areas, to the Dunubs Belta, on the Dannic-Black Sea Canal, and to other fourist according to all areas. Canal, and to other tourist aro-

VACATIONS IN THE CARPATHIANS. For those who love mountaineering, winter spurts, nature or those who went to recover their physical and psychio forces, mountain reserts are the best places for sponding one's vacalion.

In mountain resorts, the acceas is facilitated by numerous mablecars, ski lifts, like those in Sinala, Buşleni-Bahole, Ruhule-Peştera Holel, Polana Ilraş iy-Cristlanul Mare, Illica Cuspalá-liles Iva ele Biles Lac, elc.

in pleinresque valleys ur an mountain slopes thero are heau-tiful localities upen uit year round : Sinata, Huston', Predeal, Polana Hrasuv, Semante, Pälli

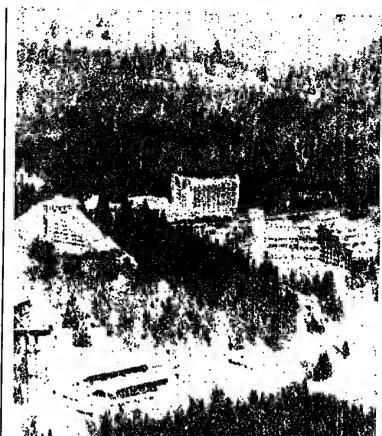


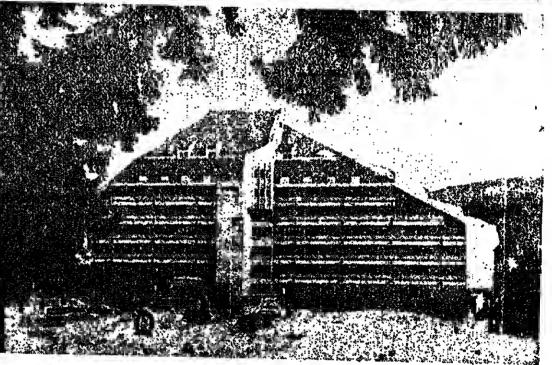
nis, Borse, Burau, with excel-lent accommodation in com-loriable holes and villes, with restaurants, swimming peets and sauna, aports grounds, ski and sledge runs, akt schools for beginners, possibilities to prac-tics swimming, riding and tennis.

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Nous and locomolor systoms.

Highly efficient natural enra footors: minerst, thermot und mozothermal waters with varied chemical camentralions and compositions, therapeutic musts and lakes, molistics and a temporatio olimato are some of the arguments to choose these spirs. Other associate affections can be irealed in oil resurts at Irealment baces with modern installations where uniong other things to originalized, personantine, lasting weight, grunnation, etc. can be applied.





The space have modern hotels, restantants with common or dio-tells meals, recreation possibili-ties and winter sports practicing the year round. The optimum length of a baideal cure is between 18 and 21 days, to be re-peated at least three years in

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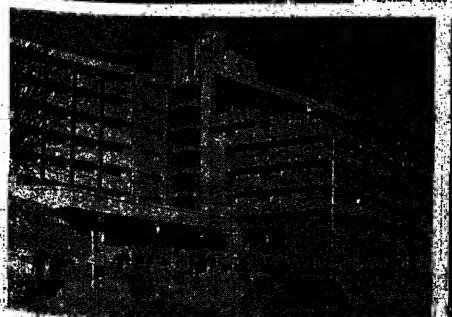
be effected in Buchares; — Flora IIoloi or Otopeni Goriairio Cilinio in halmani appart Sella. Herculane, Călimănești-Căciulata, Sovata, Eforis Nord, Buziaș, Nepiun, Mangalia, Vatra Dornel, Silanio Moidova, Tugnad, Pell-Amer, extracted from sapropeilo mud, after dr. locescu Cătinoști's mothod, has anii-inflammatory and hidsilmulat ing proposites; Treatmonis arc offected in Fella, Eforie Nord, Nopiun, Călimănești-Căciunta, Mangalia, Henculane spas and at Para Hotel in Ruchareat.

Bolcii Forte, made by Vasile Bolcii is extracted from medicinal herbs, improves or eliminates paint and complications in cases of arlicular rheumatiano; oliculatory iroubles, arteriles, etc. The turo with this drug oba

be undergone at the Centro of Mothodology and Recovery in Tangers and in the Tangers and Recovery in the Tangers and Recovery in the Tangers and Recovery in Buzias, Felix, Eforia Nord and Heroulane.

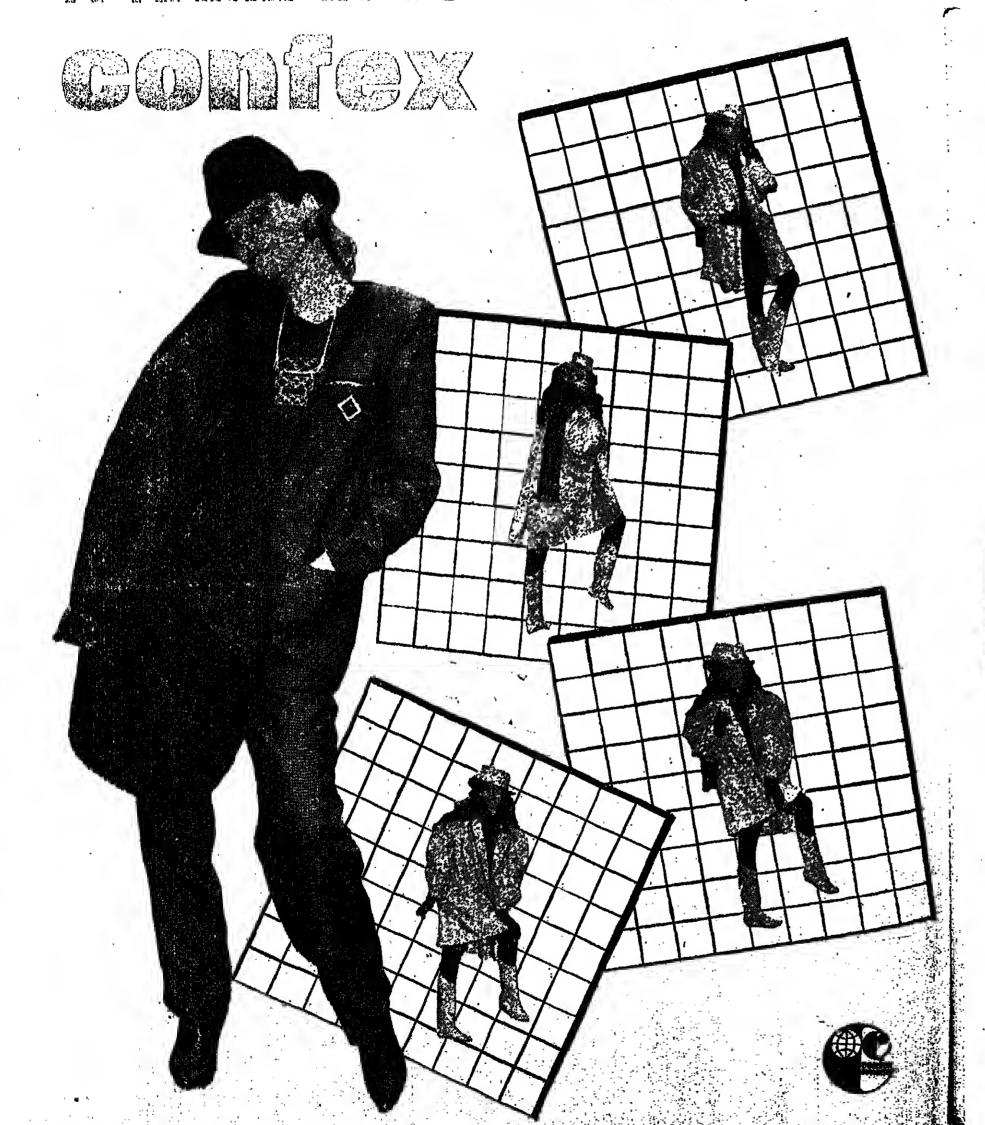
Ulcosilvanti, a product obtained by dr. Ion Puscas in Similari Silvantai, is used in treating gastroduodenat ulcor in the Felix and Geoagiu-Băi apas.

In any of these piaces in lice mountains, on the ooa coast or it a bained resort you with he astisfied by the way you apend your vacations. Everywhere great eare is maintested in opplying treatment methods, you are offered good quality services and a great variety of trips in various tourist areas of the country, the visit of unique architicular meanuments, missuing and specific pthnographic sones.





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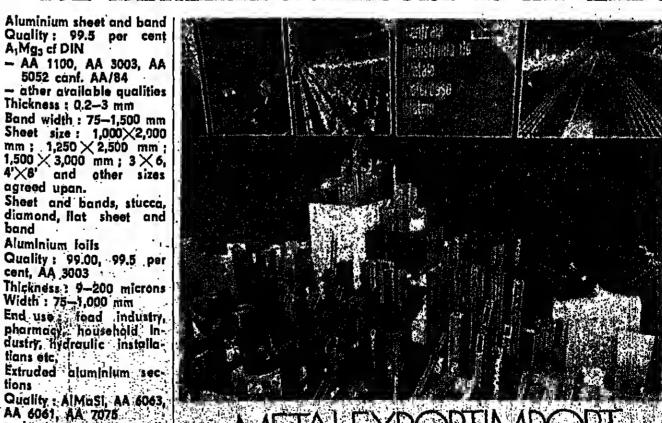
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